

FOOT" 20078550

FIG. 1A

NcoI 10 20 30 KT1 36MER (SEQ
ID NO: 1)
GAGCCATGGGCTCCTCCACGAGTTCGGCCTTCTGG
*** |||||
m g L L H E F G L L E ... <-- upper case are
WT aa
278 280 282 284 286 288 <-- codon numbering for
WT aa
AGTTTGGCAGCCTCCTCCACGAGTTCGGCCTTCTGG ... (SEQ ID NO: 14)
959 969 979 TagPol.seq GenBank
entry
Accession No. J04639 (numbering includes 5' non-translated
region)

FIG. 1B

--other strand-- KLENTAQ32 35mer (SEQ ID NO: 3)
HindIII
26 16 ***** 6
GGACTGGCTCTCCGCCCAAGGAGTAGTAGCTTCGC
|||||
D W L S A K E *
826 828 830 832
GGACTGGCTCTCCGCCCAAGGAGTGATACCACC (SEQ ID NO: 15)
2604 2614 2624
TaqPol.seq

FIG. 2

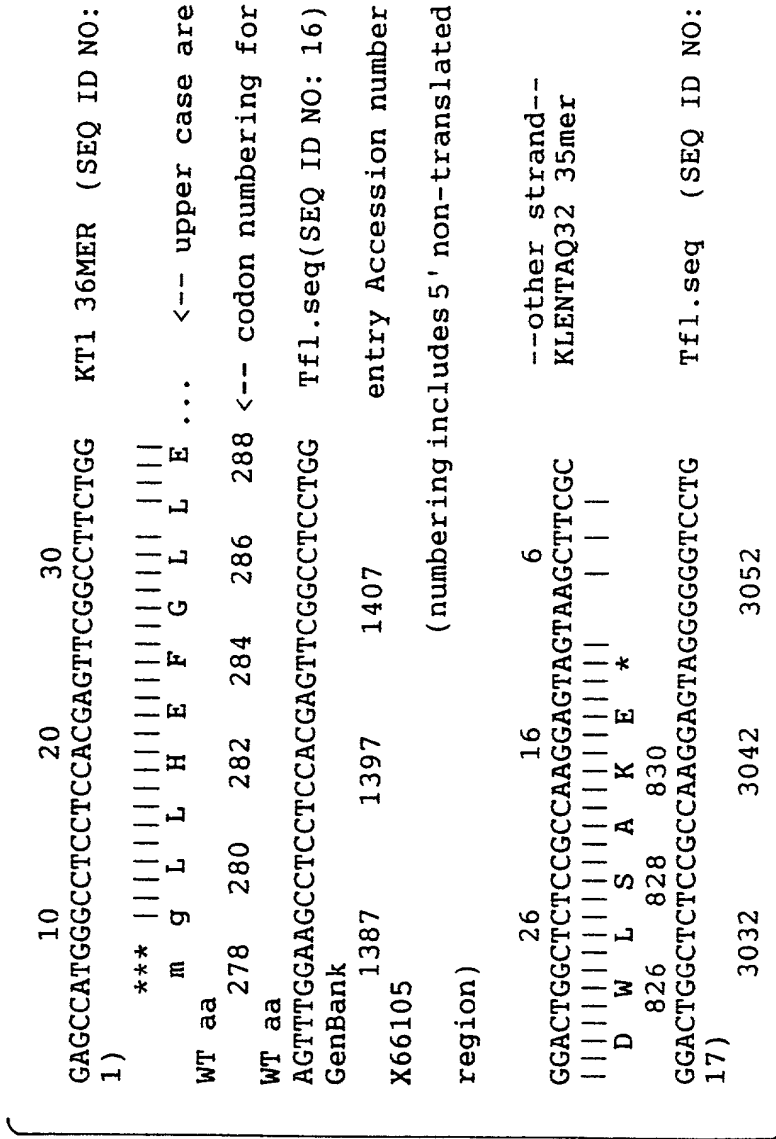


FIG. 3

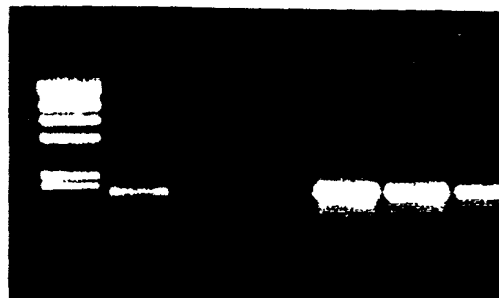
2 min. at indicated 99°, 98° or 97°, 10 min. 65° per cycle, 20 cycles.

	AmpliTaq			KlenTaq1			
99°	.8	.4	.2	1/4	1/8	1/16	<-- ul per 100 ul reaction.



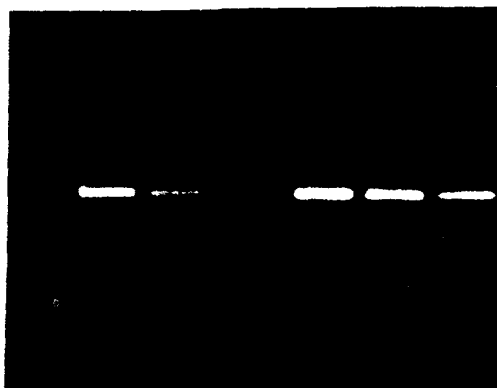
<-- 2 KB product size

	AmpliTaq			KlenTaq1			
98°	.8	.4	.2	1/4	1/8	1/16	<-- ul per 100 ul reaction.



<-- 2 KB product size

	AmpliTaq			KlenTaq1			
97°	.8	.4	.2	1/4	1/8	1/16	<-- ul per 100 ul reaction.



<-- 2 KB product size

FIG. 4

Top, figure 4A: 2 min. 98° C, 10 min. 65° C, 20 cycles
 Bottom, figure 4B: 2 min. 95° C, 10 min. 65° C, 20 cycles

λH3	AT		KT-278		ST		KT-291		λH3
std									std
	3/4	3/8	1/4	1/8	3	1.5	1/4	1/8	

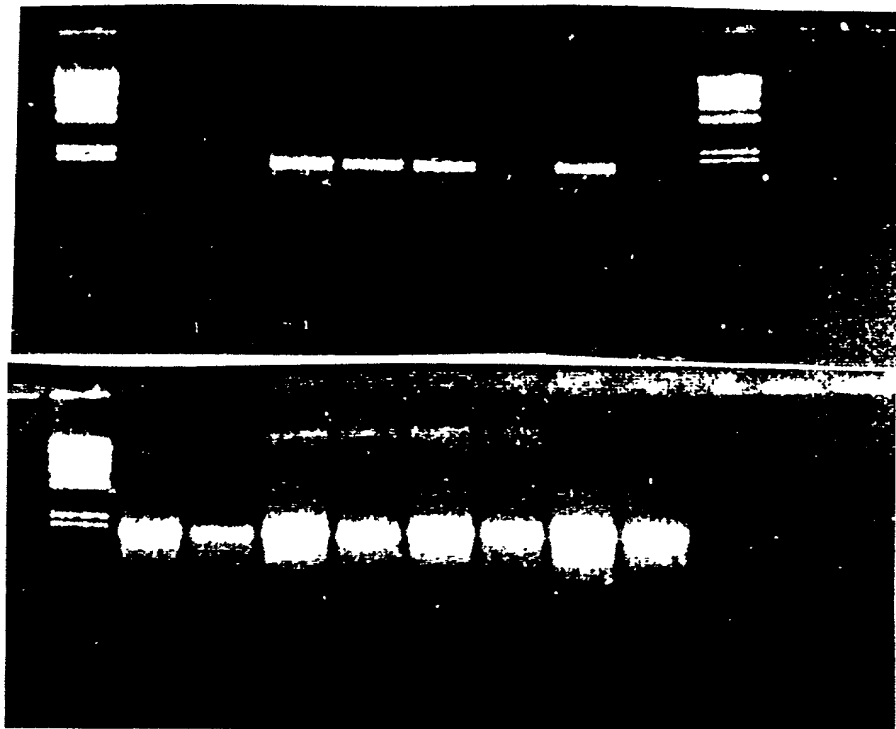


FIG. 5

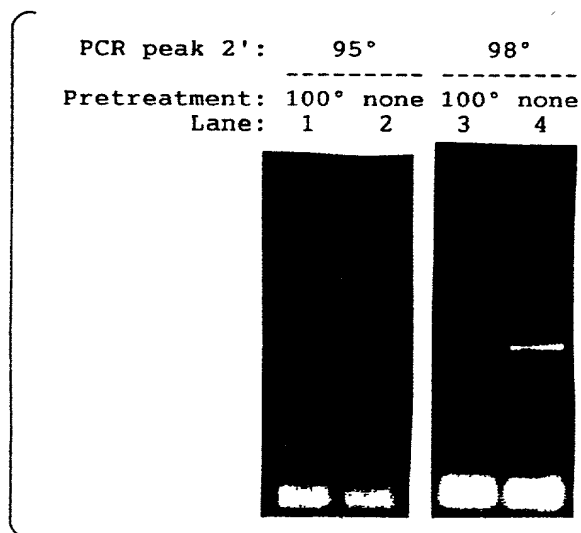
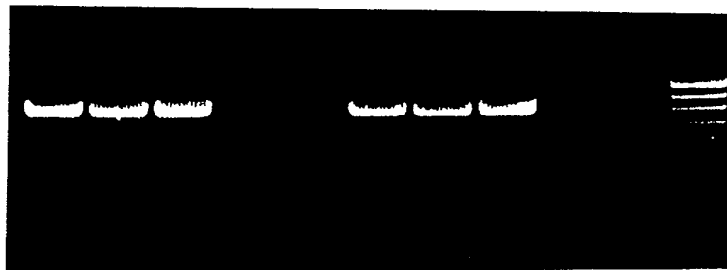


FIG. 6A

72° 20 cycles of 2 min. 94°, 2 min. 60°, 7 min.

ul of KlenTaq-278	1	1	1	1	0	2	2	2	2	0
λH3										
ul of Pfu DNA Pol	1/2	1/4	1/8	0	1/2	1/2	1/4	1/8	0	1

6.6 KB -->



New Art

Prior
Art

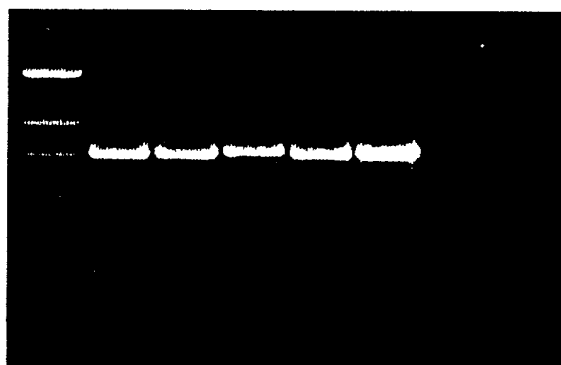
New Art

Prior
Art

FIG.6B

20 cycles of 2 min. 94°, 2 min. 60°, 10 min. 72°

ul of KlenTaq-278	1	1	1	1	1	1	0
ul of Pfu DNA Pol	1/2	1/4	1/8	1/16	1/32	0	1/2

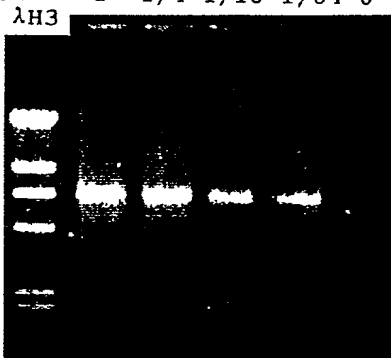


<--6.6KB

FIG.6C

20 cycles of 2 min. 95°, 1 min. 60°, 30 min. 72°

ul of KlenTaq-278	1	1	1	1	1
ul of Pfu DNA Pol	1	1/4	1/16	1/64	0



<--6.6KB

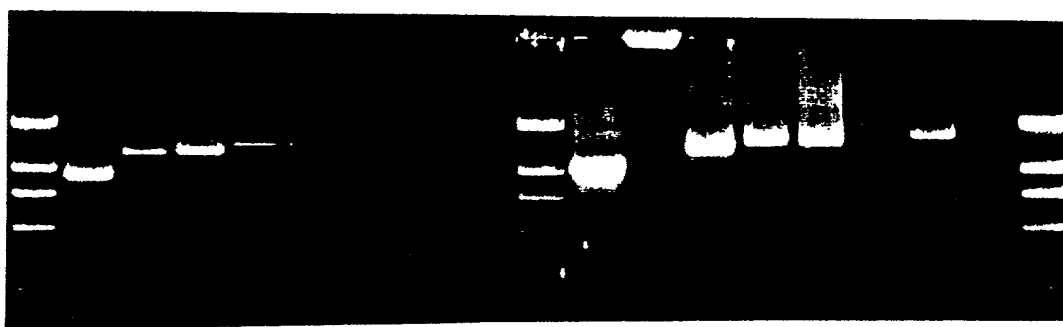
FIG. 7

Channel:	1	2	3	4	5	6	7	8
Template DNA:	λ plac5	λ pcytI	λ pcytI	λ plac5	λ plac5	λ K138	λ K138	λ K138
ng of template:	1	1	10	1	10	1	10	10
primer 1 SEQ ID NO:	9	7	7	10	10	7	7	9
primer 2 SEQ ID NO:	8	8	8	8	8	8	8	8
Size of PCR product								
Expected, in kb:	8.4	12.5	12.5	15	15	18	18	19.7

Conditions A

Conditions B

λ H3 1 2 3 4 5 6 7 8 λ H3 1 2 3 4 5 6 7 8 λ H3



Conditions C

λ H3 1 2 3 4 5 6 7 8 λ H3

